



ARCTIC CENTRE

ANNUAL REPORT 2014



ARCTIC CENTRE
University of Lapland

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FROM THE DIRECTOR



I worked in the Arctic Centre for 15 years. It is already a life's work as such, and it has been great times. When I started here, Arctic Centre was not very well known, and arctic issues were in marginal from the main trends. Only few extremists were interested in research in such a region. We worked here far away from everything and had actually pretty good possibility to build the organization and grow as professional experts.

We have seen how in mid 2010s the attention of the whole world suddenly directed towards the North. The hottest boom is already over, but I strongly believe that the importance of arctic issues will not decline into their earlier stage. Especially in Finland, their importance will stay high, as we will become the chair of the Arctic Council in two years, after US. This means, that expertise of the Arctic Centre will be called for and needed.

The task of Director was interesting and enjoyable, but at the same time challenging and also hard work. On top of management and taking care of various needs of staff members, budget and facilities, the director is the leader who promotes the values, visions and strategies, keeps in touch with external actors from Finnish Government and ministry officials, international and regional networks, funders and with all units of the university. The director runs also projects that support the activities of the whole institute.

I would like to mention some of my projects here. Together with Researcher Päivi Soppela we got the funding of Ministry of Education and Finnish Academy for three times in order to run the Arktis Graduate School for 10 years. So far 15 PhD students have graduated from it, and still some more will graduate. With Chief Exhibition Producer Nicolas Gunsley, we modernized and totally renewed the old science centre exhibition with regional EU -funding. Then, together with Swedish Professor Veijo Pohjola and Professor John Moore, we organized a set of international arctic expeditions to Svalbard, Kinnvika, which, in the end, was the largest Nordic International Polar Year Project. And together with Project Manager Kamil Jagodzinski, Researcher Adam Stepien, Head of Science Communications Markku Heikkilä and Professor Timo Koivurova, we implemented the Preparatory Action on the EU Arctic Information Centre, along which Finland, Rovaniemi, University of Lapland and its Arctic Centre has been mentioned in every single arctic document of the EU. No other institution, or university or a city is mentioned in them.

The task of the Arctic Centre is both to produce and to disseminate fact based information in different formats for scientific and societal needs. It is obvious, that we have a common understanding about our strategy. But I think it does explain the success of the Arctic Centre. The institutional structure of the Arctic Centre supports it, because on top of research, we have the units of science communication and science centre exhibition. They use interaction as a tool in their daily work. During a couple of decades, engagement with local inhabitants and stakeholders has become part of our expertise also in research. This is how the researchers operate in Siberia and Yamal, in the villages of Lapland and even in the whole Europe including the EU Commission. The location of the Arctic Centre and the fact that we leave in the Arctic ourselves is an extra asset that offers potential to understand the natural and social conditions here in the North. That is not possible to do by looking the region from outside.

It is notable that we are not just organizing discussions or dialogues as tools for societal impact, but the point is to truly influence our research and working processes, and further on the results of the output. It is not just hearing, but it is listening. This is done with various professional methods on which the

Arctic Centre has accumulated a lot of invaluable expertise. Stakeholder consultations are actually becoming a fashionable trend in the Arctic research and policy planning, and even in the activities of private sector. Our engagement activities and the organizational structure of the Arctic Centre is so much our everyday life that sometimes we may forget that it is a field of expertise that is worth to say out and even market as our speciality.

Another speciality of the Arctic Centre is that it is multidisciplinary. The Arctic is a geographical definition and naturally, there exist all sectors of society like in any other region. However, multidisciplinary research that studies the impacts of the change on environment and humans in the Arctic is commonly understood as "the arctic research". For this, the fields of disciplines of the Arctic Centre: natural, social and legal sciences are the most optimal.

One more greatness of the Arctic Centre is that it is so international and diverse: 20 % of our staff members are foreigners coming from at least ten countries all around the world. And the split of different age groups as well as male and female are pretty evenly distributed. As a whole, the Arctic Centre is very unique working place and a real arctic "knowledge broker". It is no wonder that it has risen as one of the most important hubs on Arctic expertise in the world.

During the 15 years time, a great number of staff members who now work as senior researchers or other experts have received a permanent contract. We have also recruited all the Research Professors of the Arctic Centre. They are Monica Tennberg, Bruce Forbes, Timo Koivurova, Florian Stammer, John Moore and Jukka Similä. All of them are top scholars in their fields of sciences and their expertise fulfil each other. They have further recruited the professional staff and talented students of the Arctic Centre. We have great head of administration Osmo Räätä, whose main profession is Senior Researcher. And we are lucky to have such an excellent and patient office staff, Tuija Katermaa, Riitta Aikio, Raija Kivilahti and Pertti Leinonen.

And further, the board of the Arctic Centre, its members and responsible chairman Matti Hepola have provided strong support for our work. We have world class scientific advisory board that offers excellent strategic views and support. The Board of the University of Lapland has shown its trust to our work by directing the needed resources. Negotiations with Rector Mauri Ylä-Kotola and the rectors' team have gone very well and co-operation with faculties has been fluent.

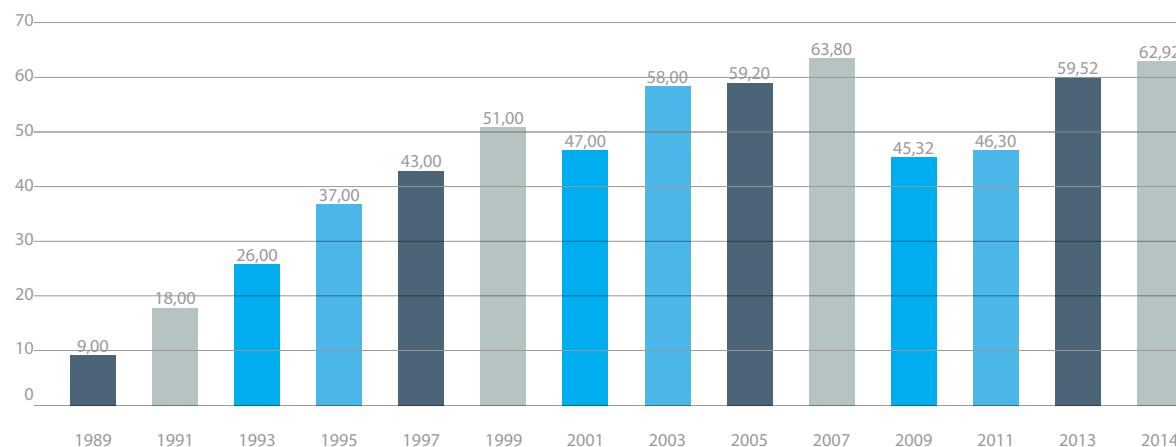
In the Arctic Centre, the staff members have deep respect to each other. We have split our tasks so that each can concentrate on the work in which she or he is the best. Of course, there is no social group - or even a family - that does not have any contradictions, but we have managed to solve them in polite manner and by discussions. This type of spirit of co-operation is indeed unique. Together we have created the best wholeness in the world. I am proud about it and the whole staff of the Arctic Centre. The Arctic Centre operates well as an organization. I think it is the best time for a new director to continue from now on.

Paula Kankaanpää
Director (2000-2015), Arctic Centre,
University of Lapland

FACTS & FIGURES

Person-years of work

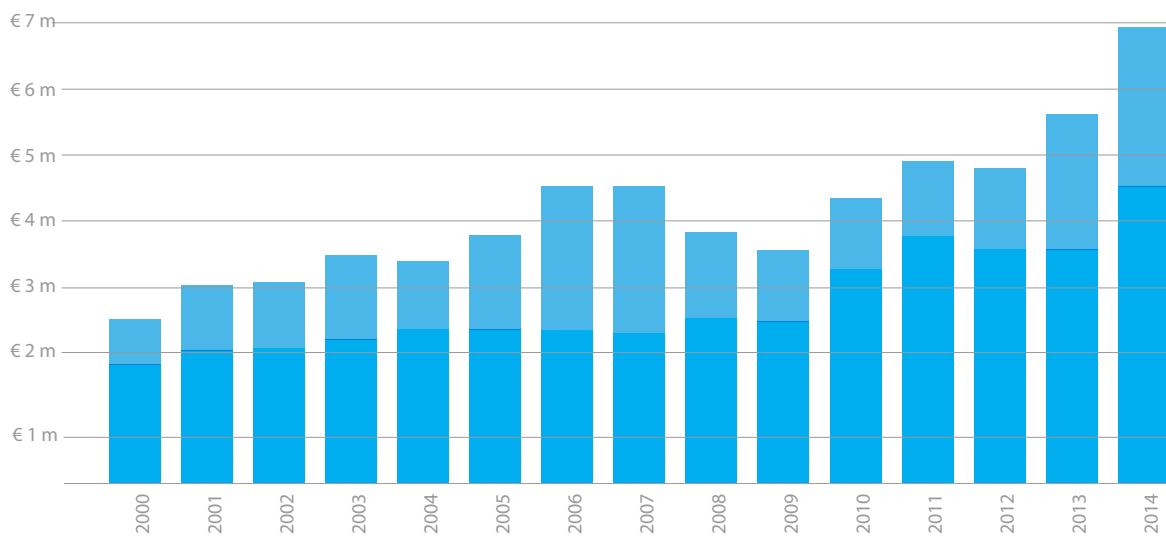
1989 vs. 2014



Arctic Centre Funding

2000-2014

- External Funding
- Basic Budget



Visiting personnel

30 visiting researchers/trainees from 10 different countries.
Average visiting time was 4 months.

TOP CHINESE AWARD FOR ARCTIC CENTRE SCIENTIST

The highest award of People's Republic of China for the foreign nationals is the China Friendship Award, which is given to around 50 persons annually for their "outstanding contribution to the country's economic or social progress". In 2014, on the 65th anniversary of the Chinese Revolution, one of the awarded was Arctic Centre Research Professor John Moore.

John Moore has been part of the Arctic Centre staff since the year 1993. Nowadays he works most of the year as the Chief Scientist of the College of Global Change and Earth System Science (GCESS) at the Beijing Normal University, but in addition to that he still works one quarter of his time at the Arctic Centre.

"The GCESS College was set up by a former Minister of Science and designed to look at global change, especially by using a supercomputing climate system model. We have around 100 graduate students and 60 staff members. My group is focused on glacial modelling and geoengineering", John Moore tells.

"The Friendship Awards are always given in October, on the Anniversary of the Chinese Revolution. Most people that get it are associated with business, from the academic field only five to ten people per year are awarded. From the field of Arctic Studies, I know no one else that has got the award. As the most people that get it have a very long association of China

and built their relations for many years, I was very surprised for getting awarded. But surely the fact I have lived in the country for six years now and that during my time there our faculty has risen in international rankings from place 120 to 70 played a role", explains John Moore. The anniversary of the revolution is a national holiday in China, and the award ceremony a notable event.

"The Chinese really took care of things. The people awarded came there from all over the world, among them for example an American Nobel Prize winner in Economics. All the traffic was stopped, when we were driven from our hotel to the Great Hall of People, where the ceremony was held. One of the vice premiers gave the awards and the Prime Minister gave a speech. In the evening we participated in a banquet with around 3000 other people. What was really interesting was how cool and relaxed the atmosphere was, you could just walk around and talk with all the Chinese notables there" John Moore recalls.



ARCTIC CENTRE FIELDWORK IN 2014

The researchers of the Arctic Centre do fieldwork in various places.

Here are presented the fieldwork locations of our researchers during 2014.

Tuorpon & Saarivuoma

Norrbotten, Sweden:
Global Change
research group

Finnmark, Norway

Various locations:
Arctic Anthropology research
team & Global Change
research group

Finnish Lapland

Various locations:
Northern Political Economy
and Arctic Anthropology
research teams & Global
Change research group

Lovozero Tundra

Murmansk oblast, Russia:
Arctic Anthropology
research team







PROJECTS OF THE ARCTIC CENTRE IN 2014

ARCTIC CENTRE PROJECTS 2014

SCIENCE CENTRE PROJECTS

Arctic Expo Centre - Nuclear-Powered Icebreaker Lenin - ICE / Nicolas Gunslay / EU Kolarctic ENPI CBC Programme 2007-2013 / 3.5.2012 - 2.6.2015

Ideaverstas ja tiedekasvatus / Nicolas Gunslay / Tiedekeskussäätiö / 5/2014 - 30.11.2015

Places / Nicolas Gunslay / Ecsite / 2012-2014

Tiedematkailu ja palvelumuotoilu / Nicolas Gunslay / EAKR Lapin liitto / 1.1.2013-31.12.2014

Interaktiv Visualisering / Nicolas Gunslay / Interreg IV A Nord / 1.4.2013-30.6.2014

Global Change Research Group

RISES - Resilience in Social-Ecological Systems in Northwest Eurasia / Bruce Forbes / Academy of Finland / 1.9.2012 - 31.8.2016

TUNDRA - How to Preserve the Tundra in a Warming Climate / Bruce Forbes / NordForsk, Nordic Centre of Excellence / 1.1.2011 - 31.12.2015

LapLinko - Lapin lintukohteet / Jukka Jokimäki / EAKR-Lapin ELY-keskus / 1.4.2012 - 30.6.2014

SVALI - Stability and Variations of Arctic Land Ice / John Moore / Nord Forsk, Nordic Centre of Excellence / 1.1.2010 - 31.10.2015

Poroaitojen riistaturvallisuus / Osmo Rätti / EAKR Lapin ELY-keskus, Metsähallitus, RKTL ja Lapin yliopisto, Arktinen keskus / 20.9.2013 - 30.4.2015

Lämmönsäätyevasteet ja turvallisuus poromatkailuyrittäjien tuottamissa ohjelmapalveluissa / Päivi Soppela / Maa- ja metsätalousministeriö / 1.1.2012-31.3.2014

Reindeer Grazing and Tundra Soil Carbon Storage under Changing Climate / Sari Stark / Academy of Finland / 1.5.2012-31.7.2014

Laidunnuksen ja ilmastonmuutoksen yhteisvaikutukset subarktisen ekosysteemin hiilivarastoihin / Sari Stark / Maj ja Tor Nessling säätiö / 1.1.2013 - 31.12.2015

Sustainable Development Research Group

Ekologinen perinnetieto Suomen Saamelaisalueella. Perinteisen tietotaidon kestävä käyttö ja innovatiiviset sovellukset. / Elina Helander-Renvall / EAKR Lapin liitto / 1.1.2014 - 30.4.2015

ACCESS - Arctic Climate Change, Economy and Society / Anna Stammler-Gossman / EU-FP7 / 1.3.2011 - 28.2.2015

POLARIS / Florian Stammer / EU - Marie Curie - Université de Versailles Saint-Quentin-En Yvelines / 1.3.2013 - 28.2.2017

ORHELIA - Oral History of Empires by Elders in the Arctic / Florian Stammler / Academy of Finland / 1.9.2011 - 31.8.2015

KEMU - Kestävä maahanmuuttajaryttäjyys / Monica Tennberg / EU-ESR - LAPELY / 1.6.2013-28.2.2014

ARCSUS - Arctic Urban Sustainability in Russia / Monica Tennberg / The Barents Institute at the University of Tromsö/ The Norwegian Research Council / 15.11.2012 - 15.11.2015

The Barents Journal / Monica Tennberg / Kolarctic Enpi CBC Programme 2007-2013 / 18.12.2012 -30.04.2015

CAVIAR-II, Critical Aspects of Adaptive Capacity to Climate Change in the Northern Regions / Monica Tennberg / Nordland Research Institute / 1.5.2012 - 31.12.2014

IBA-AACA - Adaptation Actions for a Changing Arctic / Monica Tennberg / Ympäristöministeriö / 2.10.2014 - 29.2.2016

VNK-AACA - Adaptation Actions for a Changing Climate / Monica Tennberg / Liikenne- ja viestintäministeriö / 1.11.2014 - 31.12.2016

NEO-BEAR II -Neoliberal Governance and Sustainable Development in the Barents Euro-Arctic Region: Local Communities' perspectives / Monica Tennberg / Nordregio / 15.5.2014 - 31.5.2015

RESCuE - Patterns of Resilience during Socioeconomic Crises among Households in Europe / Monica Tennberg / EU 7th FP / 1.3.2014 - 28.2.2017

Northern Institute for Environment and Minority Law

Arctic Law and Governance in People's Republic of China and in Finland / Timo Koivurova / Academy of Finland / 1.1.2014-31.12.2014

Poronhoito ja muu maankäyttö - Vertaileva tutkimushanke ILO-sopimukseen No. 169 implementoinnin erilaisista vaihtoehtoista Suomen Lapissa / Tanja Joona / MMM / 1.4.2013 - 30.6.2015

EIA - Testing Improvement Processes of Finnish EIA and the Modes for Application in Arctic Regions of Finland and Russia / Timo Koivurova / Tekes / 1.1.2013 - 31.12.2014 /

SUMILCERE - Sustainable Mining, Local Communities and Environmental Regulation in Kolarctic Area / Timo Koivurova / Kolarctic Enpi CBC Programme 2007 - 2013 / 1.1.2013 - 31.12.2014 / 71300 €

Arctic knowledge structures and administration

Saami People and the European Union Arctic Policy / Paula Kankaanpää / Sámi Council / 19.12.2013 - 31.12.2014

Strategic Environmental Impact Assessment of development of the Arctic / Paula Kankaanpää / European Commission / 19.12.2012 - 18.6. 2014

Rovaniemi kansainvälisen arktisen yhteistyön keskukseksi / Paula Kankaanpää / 1.1.2012 - 31.12.2014

Rovaniemen kansainvälisen arktisen konferenssin 2015 valmistelu ja toteutus / Paula Kankaanpää / Lapin liitto, Jenny ja Antti Wihurin säätiö & Rovaniemen kaupunki / 1.7.2014 - 31.12.2015

Ympäristövaikutusten arvointi (YVA) Arktisella alueella / Paula Kankaanpää / Ympäristöministeriö / 1.3.2014 - 28.2.2015

CIMO Fellowship / Paula Kankaanpää / CIMO / 1.5.2014 - 31.12.2015

Science Communications

Barents Mediasphere / Markku Heikkilä / EU Kolarctic ENPI CBC Programme 2007 - 2013 / 25.8. 2012 - 31.12. 2014

Yhteishanke Etelämantereelta kerätyn suomalaisen tutkimusdatan tiedonhallinnasta / Markku Heikkilä / Ilmatieteenlaitos / 1.1.2003 - 31.12.2014

IBS - Barents Euro-Arctic Council website, Barentsin-fo-portal, Barents Information Strategy / Markku Heikkilä / Barents Euro-Arctic Countries / 1.1.2012 - 31.12.2015

Tutkijasta tarinaksi -mallin rakentaminen ja pilottointi / Markku Heikkilä / Tieteen tiedotus ry / 26.11.2012 - 31.12.2014





EVENTS OF THE ARCTIC CENTRE IN 2014



ARCTIC CENTRE EVENTS 2014

"Mapped beauty" - a temporary exhibition of old Arctic maps interested many visitors.



24.2.-1.3.2014

Barents Mediasphere Course,
Rovaniemi and Oulu

3.-4.3.2014

Seminar: Cultural Resilience and
Human Rights- Perspectives
of Northern Indigenous Peoples

3.-4.3.2014

EU-AIC meeting, Inari

17.3.2014

Workshop: Comparing Arctic Law
and Governance in China and Finland

18.3.-20.4.2014

Nature photos of the year 2013
-exhibition

17.4.-25.5.2014

"Sweden panorama" photo exhibition

19.5.2014

Artic EIA Round table

6.6.2014

Opening of the Exhibition Mapped Beauty.

11.-13.6.2014

"Experiencing and Protecting Arctic Sacred
Sites and Culturally Important Landscapes
- Creating Partnerships with Mutual
Respect" workshop in Inari/Aanar

Defence of Doctoral Dissertation
by Pirjo Kleemola-Juntunen

**29.08. 2014**

Defence of Doctoral Dissertation by
Pirjo Kleemola-Juntunen: Passage Rights
in International Law: A Case Study of the
Territorial Waters of the Åland Islands

11.09.2014

Seminar: The EU in the Arctic,
The Arctic in the EU, Brussels

17.10.2014

Third Ainu-Sami seminar

20.-21.10.2014

NJF Seminar "Reindeer herding and land
use management - Nordic
perspectives"

21.-23.10.2014

Barents editor forum

4.-5.11.2014

Barents Studies: Past, present and
future seminar

18.-19.11.2014

Konrad Adenauer foundation's expert
meeting "Climate Change, Adaptation
and Sustainability in the Arctic -
Assessing alternatives towards
and beyond Paris 2015"

27.-28.11.2014

Shamanism, Symbolism and
Culture -seminar



**The Delegation of H.E. President
of India Pranab Mukherjee.**

The visit marked the first time in history when president of India crossed the Arctic Circle.

ARCTIC CENTRE VISITS 2014

7.5.2014

Ambassador of Austria, Dr. Elisabeth Kehrer

15.5.2014

US Arctic Research Comission (USARC)

23.5.2014

Ambassador of Japan, Mr. Kenji Shinoda

1.6.2014

Member of Chinese politburo standing committee, Liu Yunshan

2.6.2014

Ambassador of China, Mr Yu Qingtai & Mme. Sun Liping

16.6.2014

Delegation from Salekhard

26.6.2014

Justin (Jong-Deog) Kim, Director General of Strategy Research Division, Head of Polar Policy Research Center, Korea Maritime Institute

23.9.2014

European Economic and Social Committee

8.10.2014

Finnish Parliament Committee of Traffic and Communications

16.10.2014

The Delegation of H.E. President of India, Pranab Mukherjee

6.11.2014

Hokkaido University Delegation

12.11.2014

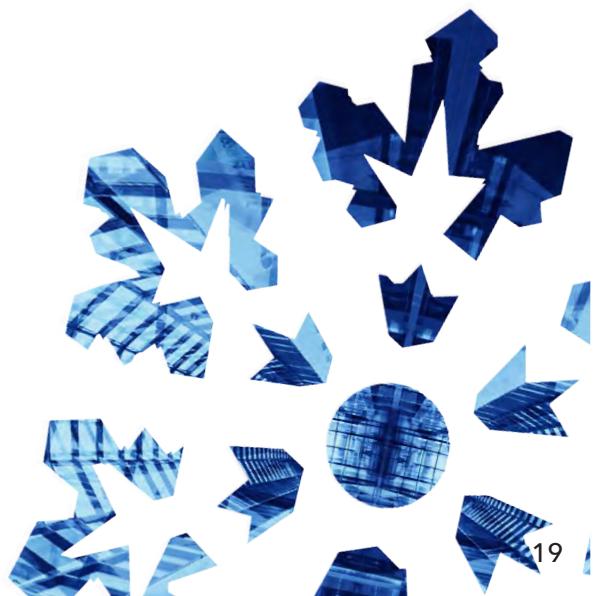
Nordplus Law network

9.12.2014

Mr. Rodoslaw Sikorski, Marshal of the Sejm of Poland

17.12.2014

BEAC CSO (Barents Euroarctic Council, Committee of Senior Officials)





PUBLICATIONS OF THE ARCTIC CENTRE IN 2014



ARCTIC CENTRE PUBLICATIONS 2014

MEMBERS OF AC STAFF ARE MARKED WITH BOLD.

Peer reviewed articles in scientific journals, original research

Berdahl, M., A. Robock, A., D. Ji, D., **Moore, J. C.**, Jones, A., Kravitz, B., Watanabe, S. (2014). Arctic cryosphere response in the Geoengineering Model Intercomparison Project (GeoMIP) G3 and G4 scenarios. *Journal of Geophysical Research* 119 (2014) : 3, p. 1308-1321.
Doi: 10.1002/2013JD020627.

Bickford, Sonja H., Nenasheva, Marina, **Kankaanpää, Paula, Koivurova, Timo**, Hlavnicka, Angela M. (2014). Online Information System – Russia Aims to Ease the Environmental Impact Assessment (EIA) Market Entry Barrier into Northwestern Russia. *Communications of the IBIMA* (2015), Article ID 185611.
Doi: 10.5171/2015.185611

Curry, C.L., Sillmann, J., Branaugh, D., Alterskjær, K., Cole, J. N. S., D. Ji, B. Kravitz, J.E. Kristjánsson, **J.C. Moore**, J. C., Muri, H., Niemeier, U., A. Robock, A., Tilmes, S., Yang, S. (2014). A multi-model examination of climate extremes in an idealized geoengineering experiment. *Journal of Geophysical Research* 119 (2014) : 7, p. 3900-3923.
Doi: 10.1002/2013JD020648

Díaz, Mario, Cuervo, José Javier, Grim, Tomas, Flendsted-Jensen, Einar, Ibanéz-Alamo, Juan Diego, **Jokimäki, Jukka, Markó, Gábor, Tryjanowski, Piotr, Moller, Anders Pape** (2014). Interactive effects of fearfulness and geographical location on bird population trends. *Behavioral ecology* (2014) : p. 1-6.
Doi: 10.1093/beheco/aru211

Dong, W., Yuan, W., Liu, S., **Moore, J. C.**, Shi, P., Feng, S., Chou, J., Cui, X., Jiang, K. (2014). China-Russia gas deal for a cleaner China. *Nature Climate Change* 4(2014) : p. 940-942.
Doi: 10.1038/nclimate2382

Francini, Gaia, Liiri, Mira, **Männistö, Minna, Stark, Sari, Kytöviita, Minna-Maarit** (2014). Responses to reindeer grazing removal depends on soil characteristics in low Arctic meadows. *Applied soil ecology* (2014) : 76, p. 14-25.
Doi: 10.1016/j.apsoil.2013.12.003

Gladstone, R., Schäfer, M., Zwinger, M., Gong, Y., Strozzi, T., Mottram, R., Boberg, F., **Moore, J. C.** (2014). Importance of basal processes in simulations of a surging Svalbard outlet glacier. *Cryosphere* (2014) : p. 8-1393.
Doi: 10.5194/tc-8-1393-2014

Graczyk, Piotr, **Koivurova, Timo** (2014). A new era in the Arctic Council's external relations? Broader consequences of the Nuuk observer rules for Arctic governance. *Polar record* 50 (2014) : 3, p. 225.
Doi: 10.1017/S0032247412000824

Hasanat, Waliul (2014). Searching for Synergies in International Governance Systems Developed in the Circumpolar North. *McGill international journal of sustainable development law and policy* 9 (2014) : 2, p. 5-41.

Hossain, Kamrul (2014). Looking at the Arctic? The EU energy policy, dependence and environmental responsibility toward the Arctic Hydrocarbons, *The UPES Law Review* 1(2), pp. 136-172.

Huisingsh, Donald, Zhang, Zhihua, **Moore, John C.**, Qiao, Qi, Li, Qi (2014). Special volume on "Carbon Emissions Reduction: Policies, Technologies, Monitoring, Assessment and Modeling". *Journal of Cleaner Production* 64(2014) : p. 6-8.
Doi: 10.1016/j.jclepro.2013.07.025

Huneeus N., O. Boucher, K. Alterskjær, J. N. S. Cole, C.L. Curry, D. Ji, A. Jones, B. Kravitz, J. E. Kristjánsson, **Moore, J. C.**, H. Muri, U. Niemeier, P. Rash, A. Robock, B. Singh, H. Schmidt, M. Schulz, S. Tilmes, S. Watanabe, J.-H. Yoon (2014). Solar irradiance reduction and increased CO₂ radiative forcings and feedbacks in the GeoMIP ensemble. *Journal of Geophysical Research* 119 (2014) : 9, p. 5226-5239.
Doi: 10.1002/2013JD021110

Irvine, P.J., Ridgwell, A. J., Lunt, D. J., **Moore, J. C.**, D. Ji, J.N.S. Cole, C.L. Curry, J-H. Yoon, P.J. Rasch, S. Balwinder, S. Tilmes, S. Yang, B. Kravitz, A. Robock, A. Jones, O. Boucher, M. Schulz, S. Watanabe, U. Niemeier, J.E. Kristjánsson, K. Alterskjær, H. Mur (2014). Identifying key uncertainties for sunshade geoengineering by comparing the GeoMIP ensemble and a perturbed parameter ensemble. *Journal of Geophysical Research* 119 (2014) 13, p.7946-7962.
Doi: 10.1002/2013JD020716

Jevrejeva, S., A. Grinsted, A., **Moore, J. C.** (2014). Upper limit for sea level projections by 2100. *Environmental Research Letters* (2014).
Doi: 10.1088/1748-9326/9/10/104008

Jevrejeva, S., **Moore, J. C.**, Grinsted, A., Matthews, A. P. Spada, G. (2014). Trends and acceleration in global and regional sea levels since 1807. *Global and planetary change* (2014) : 113C, p. 11-12.
Doi: 10.1016/j.gloplacha.2013.12.004

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Doi: 10.5194/gmd-7-2039-2014

Jokimäki, J., Suhonen, J., **Jokimäki-Kaisanlahti, M.-L.**, Carbó-Ramírez, P. (2014). Effects of urbanization on breeding

birds in European towns : Impacts of species traits. *Urban ecosystems* (2014).
Doi: 10.1007/s11252-014-0423-7

Joy, Francis (2014). What influence do the old Sámi noaidi drums from Lapland play in the construction of new Shaman drums by Sámi persons today? *Folklore* 56 (2014) : p. 117-158.
Doi: 10.7592/FEJF2014.56.joy

Koivurova, Timo, Masloboev, Vladimir, **Petrétei, Anna**, Nygaard, Vigdis, **Hossain, Kamrul** (2014). Transboundary EIA in the Barents Region. *Nordisk miljörättslig tidskrift* (2014) : 3, p. 45-62.

Koivurova, Timo, **Petrétei, Anna** (2014). Enacting a new mining act in Finland - how were sami rights and interests taken into account? *Nordisk miljörättslig tidskrift* 1 (2014) : p. 119-133.

Kravitz, B. D., MacMynowski, Robock, A., Rasch, P., K. Rieke, J. Cole, C. Curry, P. Irvine, D. Ji, J. Kristjansson, **Moore, J.C.**, H. Muri, B. Singh, S. Tilmes, S. Watanabe, S. Yang, J-H Yoon (2014). A Multi-Model Assessment of Regional Climate Disparities Caused by Solar Geoengineering. *Environmental Research Letters* 9 (2014) : 7, p. 74013-74019
Doi: 10.1088/1748-9326/9/7/074013

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Doi: 10.3167/sib.2014.130302

Lindroth, Marjo (2014). Indigenous rights as tactics of neoliberal governance: practices of expertise in the United Nations. *Social and legal studies* (2014): p. 1-20.
Doi: 10.1177/0964663914524265

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ARCTIC CENTRE EXPERT MEMBER- SHIPS 2014



ARCTIC CENTRE EXPERT MEMBERSHIPS 2014

The staff members of the Arctic Centre are invited as experts in various national and international boards. This activity has wide scientific and societal impact. Here are examples of memberships in 2014.

PUBLICATIONS

Acta Borealia - A Nordic Journal of Circumpolar Societies / Elina Helander-Renvall, member of editorial board

American Journal of Climate Change / John Moore, editor-in-chief

Arctic and Antarctic International Journal of Circumpolar Sociocultural Issues / Anna Stammmer-Gossmann, co-editor

Arctic Centre reports / Jukka Jokimäki, responsible editor

Arctic Human Development Report II / Elina Helander-Renvall, chapter reviewer

The Arctic Review of Law and Politics / Timo Koivurova, editor & Kamrul Hossain, member of editorial board

Barents Studies: Peoples, Economies and Politics/ Monica Tennberg, member of editorial board & editor of Issue 1

Chinese Journal of Polar Science / John Moore, member of editorial board

Cooperation and Conflict. Journal of the Nordic International Studies Association / Monica Tennberg, member of editorial advisory board

The Cryosphere / John Moore, member of editorial board

Ecology and Society/ Bruce Forbes, member of editorial board

Fennia / Bruce Forbes, member of editorial board

Finnish game (Suomen riista) / Osmo Rätti, member of editorial board

Frontiers in Marine Science / Timo Koivurova, review editor

International Journal of Wilderness / Anna-Liisa Ylisirniö, associate editor

Journal of International Women's Studies / Kamrul Hossain, member of editorial board

Landscape and Urban Planning / Jukka Jokimäki, member of editorial board

Maritime Safety and Security Law Journal / Kamrul Hossain, editor

Nature Conservation / Jukka Similä, subject editor

Nordic Journal of Environmental Law / Timo Koivurova, co-editor

Nordic Journal of International Law / Timo Koivurova, co-editor

Pastoralism: Research, Policy and Practice / Florian Stammmer, member of editorial board

Polar Geography / Bruce Forbes & Paula Kankaanpää, members of editorial board

Polar Record / Anna Stammmer-Gossmann, editorial advisor

Public Law Review (Przegląd Prawa Publicznego) / Timo Koivurova, member of editorial board

Rangifer / Päivi Soppela, member of editorial board

Yearbook of Environmental Policy and Law (Ympäristöpolitiikan ja -oikeuden vuosikirja) / Jukka Similä, member of editorial board

Yearbook of Polar law / Timo Koivurova, editor-in-chief & Kamrul Hossain, book review editor

BOARDS, COMMITTEES AND WORKING GROUPS

2nd Nordic NJF Seminar on Reindeer Husbandry Research "Reindeer herding and land use management - Nordic perspectives" / Päivi Soppela, Coordinator and Member of Scientific Organising Committee

AMAP, Adaptation Actions in a Changing Arctic (AAC), Barents Regional Integrated Assessment report / Monica Tennberg, co-chair, Minna Turunen, coordinating lead author, Päivi Soppela, contributing author

Antarctic Research Coordination Group, Ministry of Education and Culture of Finland (Etelämannertutkimuksen koordinaatioryhmä, Opetus- ja kulttuuriministeriö) / Paula Kankaanpää, member

The Arctic Circle / Timo Koivurova, member of advisory board and study-group of due diligence, co-rapporteur of committee on the implementation of the rights of indigenous peoples

Arctic Committee of Finland, Prime Minister's Office (Suomen Arktinen neuvottelukunta, Valtioneuvoston kanslia) / Paula Kankaanpää & Timo Koivurova, members

Arctic Human Development Report II (AHDR-II), Arctic Council / Bruce Forbes & Timo Koivurova, lead authors

Arctic Research Consortium of the US, ARCUS / Timo Koivurova, executive board member & Paula Kankaanpää, council member

Arctic Resilience Report / Bruce Forbes, member of project

steering committee	(Ihmisoikeuskeskuksen ihmisoikeusvaltuuskunta) / Timo Koivurova, member
Arctic Social Indicators (ASI), Sustainable Development Working Group, Arctic Council / Bruce Forbes, member	Intergovernmental Panel on Climate Change, 5th Assessment Report, Working Group II Impacts, Adaption and Vulnerability / Bruce Forbes, member
Arctic Society of Finland (Suomen Arktinen Seura) / Paula Kankaanpää, member of board	The International Advisory Board on Human Rights, Ministry of Foreign Affairs / Timo Koivurova, expert member
Arran Lule Sámi Centre in Drag, Norway / Florian Stammmer, associate and consultant	International Arctic Science Committee (IASC) Glaciology Network / John Moore, Finnish representative
Assessment of research and coproduction of Mid-Sweden University /Anna-Liisa Ylisirniö, scientific evaluator for Biology and Environmental Sciences	International Arctic Social Sciences Association (IASSA), Florian Stammmer, executive council member, coordinator of the extractive industries working group
Background group of Arctic Council, Ministry for Foreign Affairs of Finland (Arktisen neuvoston taustaryhmä, Ulkoasiainministeriö) / Paula Kankaanpää, expert member	The international environmental law interest group of the American Society of International Law (ASIL) / Timo Koivurova, co-chair
Climate Action Network International's Working Group on NGO Participation in the climate negotiations / WSébastien Duyck, coordinator	The IUCN's Academy of Environmental Law (ICEL) /Timo Koivurova, Kamrul Hossain, Leena Heinämäki, Waliul Hasanat, members
Council for Finnish University Libraries, Research Support Network / Liisa Hallikainen, representativeof the University of Lapland	The IUCN's World Commission on Environmental Law (WCEL) / Timo Koivurova, member, co-chair of Arctic Regime Task Force
Earth System Governance Project / Sébastien Duyck, fellow Effect of snow conditions on reindeer winter mortality and calf production (Makera)/ Minna Turunen, chair of the steering committee	Lapland Ornithologic Association (Lapin lintutieteellinen yhdistys) / Jukka Jokimäki, member of regionally valuable bird areas of Lapland working group
EU Cost Action FA0906 UV-B radiation: A specific regulator of plant growth and food quality in a changing climate (UV4Growth) / Minna Turunen, member of management committee	Lapland University Press / Jukka Jokimäki, member of working group
EU Cost Action, Marsafenet / Timo Koivurova, member of management committee & working group member, Kamrul Hossain, substitute of management committee & working group member, Pirjo Kleemola-Juntunen, working group member	LT SER, Long-Term Socio-Ecological Research in Lapland (Ympäristöalan pitkäaikaisaineistot Lapin tutkimusasemien verkostoitumisen kilpailutekijänä) / Anna-Liisa Ylisirniö, member of the steering group
European Eco-Forum Working Group on Public Participation in International Forums / Sébastien Duyck, facilitator	National Science Foundation (USA) / Anna Stammmer-Gossman, expert, projects' evaluation
Extractive Industry Working Group of IASSA (International Arctic Social Sciences Association) /Florian Stammmer, coordinator	Nordic Network on sami and indigenous law (NORSIL) / Timo Koivurova, member of steering committee
Finnish National Committee of Arctic and Antarctic Research, Council of Finnish Academies (Polaarialueiden tutkimuksen kansallinen komitea, Suomen tiedeakatemia / Paula Kankaanpää, member & Arto Vitikka, secretary	North Eastern Federal University, Yakutsk, Russia / Florian Stammmer, affiliate member of faculty of history
The Finnish Association of Non-fiction Writers (Suomen Tietokirjailijat ry) / Markku Heikkilä, member of board & regional chair of Lapland	Polish Academy of Sciences, Committee of Polar Research, Working group on Social Sciences and Polar Research history / Adam Stepien & Małgorzata Smieszek, members
Finnish Society for Political Economy Research (Politiittisen talouden tutkimuksen seura) / Hanna Lempinen, vice-chair	Program on Negotiation at Harvard Law School, University of Harvard (USA) / Anna Stammmer-Gossman, expert
Finnish Union of University Researchers and Teachers / Hanna Lempinen, member of early stage researchers' working group	Project "Game safety of reindeer fences" (Poronaitojen riista-turvallisuus) / Minna Turunen, member of steering committee
Hammastunturi reindeer herding co-operative / Terhi Vuojala-Magga, member	Project Management Institute / Kamil Jagodzinski, expert member
Human Rights and Climate Change Working Group / Sébastien Duyck, co-coordinator	Project "Sustainable use and innovative applications of traditional Sámi know-how" (Saamelaisen perinteisen tietotaidon kestävä käyttö ja innovatiiviset sovellukset) / Minna Turunen, vice-chair of steering committee
Human rights delegation of the Human Rights Centre	Reindeer Husbandry Section; Nordic Association of Agricultural Sciences / Päivi Soppela, member
	Research advisory group of Multidimensional Tourism Institute

(Matkailualan tutkimus- ja koulutusinstituutin tutkimustiimi) /
Jukka Jokimäki, member, Anna-Liisa Ylisirniö, vice-member

Research Council of Norway /Anna Stammler-Gossmann,
expert, projects' evaluation

Research Council of Norway / Kamrul Hossain, panel member
of grant evaluation committee

Research Council of Norway's Russia and the High North/
Arctic programme (NORRUSS) / Timo Koivurova, member of
steering committee, Kamrul Hossain, member of expert panel

Research on reindeer herding and natural sources of liveli-
hood advisory board, Ministry of Agriculture and Forestry of
Finland (Porotalous- ja luontaiselinkeinotutkimuksen neu-
vottelukunta, Maa- ja metsätalousministeriö) / Minna Turunen,
member

Research Society of Lapland (Lapin tutkimusseura) / Markku
Heikkilä, board member

Russian Geographical Society / Florian Stammler, full member
Sami Research on law and social sciences at the University of
Lapland (Lapin yliopiston oikeustieteellisen ja yhteiskuntati-
eteellisen saamen tutkimuksen ohjausryhmä) / Elina Helander-Renvall and Tanja Joona, members of steering group

Samuli Paulaharju Foundation (Samuli Paulaharjun säätiö) /
Terhi Vuojala-Magga, member of board

Scott Polar Research Institute at the University of Cambridge,
UK / Florian Stammler, institute associate and consultant

The Scientific Committee on Antarctic Research (SCAR) / Arto
Vitikka, member of Standing Committee on Antarctic Data
Management

University of the Arctic's Arctic Extractive Industries Thematic
Network / Florian Stammler, co-leader

University of the Arctic's Arctic Law Thematic Network / Timo
Koivurova, leader; Tanja Joona & Leena Heinämäki,
vice-leaders

University of Lapland doctoral education curriculum planning
committee on the studies on philosophy of science and
researchers' transferable skills / Ilona Mettiäinen, member

University of Lapland University Collegium / Liisa Hallikainen,
member, Ilona Mettiäinen & Heidi Sanevaara-Niskanen,
vice members.



ARCTIC INFO

In September 2014, various reports about Strategic Environmental Impact Assessment of the Development of the Arctic were published in a high-level seminar in Brussels.

The reports were products of a year-long project carried out by 19 leading Arctic research and outreach institutions from 11 different countries and directed by the Arctic Centre. The opening speech of the seminar was held by Mr. Erkki Tuomioja, then the Minister of Foreign Affairs of Finland.

The goal of the project was to strengthen communication and outreach within the EU and between the EU and the Arctic community about the EU's contribution to address environmental and other issues raised by the rapid development of the Arctic region as a result of economic and climate change. The reports published by the project include 5 long reports as well as 7 shorter concise factsheets with themes ranging from climate and social change to mining and oil and gas resources.

All the publications of the project can be found on the web at the address:
<http://www.arcticinfo.eu>

ARCTIC CENTRE STAFF DEVELOPMENT DAY

15.1.2015

INDICA

- INVITATIONS OF DIFFERENT COMPANIES
- NO. OF LEADERSHIP
- HAPPINESS OF STAFF

- VISIBILITY
- BETTER DECISIONS
- RESEARCH RESULTS

WHAT'S THE IMPACT
of the AC's WORK in
the WORLD?

- RAISING AWARENESS
- BRIDGING PEOPLE

- CROSS-BORDER PROJECTS

DECISION
MAKERS
INDIGENOUS &
LOCAL PEOPLE

AUDITING in the
FALL of 2015

BUSINESS
COMMUNITY

WHO BENEFITS
FROM OUR WORK?



STUDENTS &
FUTURE
GENERATIONS



RESEARCH
COMMUNITY
UNIVERSITY

MOTIVATION I

- ACADEMIC ARCTIC ENVIRONMENT CHANGING
- NEED for the TYPE of INFORMATION is CHANGING

MOTIVATION II
WE NEED an ACTION PLAN
for YEARS 2016-20

What question
I have in my mind
today?



- DO
- E

CATORS

of AC STAFF to
COMMITTEES
SHIPS in CO-OPERATIONS

How to improve
the communication
within the learning
process?

BENCHMARKS

- NEEDS MORE DISCUSSION
- BALANCING ACT
- COMMUNICATING the COMPLEXITY

INCREASING COMPETITION

- ANALYSIS ABOUT OUR COMPETITIONERS and POTENTIAL FUNDING SOURCES.

SILENT LEARNING from our CUSTOMERS

How organisation learn?

PARTICIPATORY APPROACH

- COMPETITIVENESS? - NO!
- LISTING WAYS

RESULTS of the OPEN SPACE

PLANNING SUPPORT for JUNIOR RESEARCHES

- BASIC PROJECT MANAGEMENT TRAINING

METHODS

DO NOT HURRY.
Take it easy.

EVEN MORE OPEN.

- New technologies

the POSITION of AC is GOOD NOW.
NEED of PROACTIVITY in the FINNISH UNIVERSITY WORLD.

VALUE IS OUR FINAL PRODUCT

- LIMITED INFLUENCE HOW THE CUSTOMER USE IT

HOW TO STRENGTHEN TEAM WORK?

- ARCTIC CENTRE CONFERENCE to LEARN FROM EACH OTHERS



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